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BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE. CA 94085-4040			BENGZON, GREG C	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/574,319 SUN ET AL. Office Action Summary Examiner Art Unit GREG BENGZON 2444 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 18 June 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 18 June 2008 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SZ/UE)
 Paper No(s)/Mail Date ______.

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

This application has been examined. Claims 1-18 are pending.

Priority

This application claims benefits of priority from PCT Application PCT/CN2005/000264 filed March 7, 2005.

The effective date of the claims described in this application is March 7, 2005.

Information Disclosure Statement

The Applicant is respectfully reminded that each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in 37 CFR 1.56.

There were no information disclosure statements filed with this application.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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Claims 7-12,17 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 7-12 pertain to 'a computer-readable medium', which the Applicant Specifications (Pages 11-12) define as a carrier wave or data signals embodied in a carrier wave. The Examiner notes that said carrier wave or data signals embodied in a carrier wave are non-statutory subject matter. The Examiner notes that absent some physical context, a signal per se is an abstract idea in much the same way that a mathematical algorithm without context is an abstract idea.

Claim 17 is rejected based on claim dependence.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 17 recites the limitation regarding a system in Claim 10. There is insufficient antecedent basis for this limitation in the claim.

Claims 1,7, 13 recite limitations for requesting, when the first client has completed download of the file, using a reliable protocol with a second client device

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from the multiple client devices packets not received by the second client device. The Examiner notes the claim language is subject to misinterpretation. The claims are thus indefinite since a person ordinary skill in the art is not able to ascertain the scope and bounds of the claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5,7-11,13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bailey (US Patent 6185623) further in view of Marchand (US Publication 2008/0168157).

Bailey disclosed (re. Claim 1) a method comprising: receiving a request from a first client device to download a file to be transmitted as a plurality of packets of data from a server device; (Bailey-Column 3 Lines 25-45, Column 4 Lines 5-15)

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However Bailey did not disclose (re. Claim 1) multicasting the plurality of packets to multiple client devices including the first client device and requesting, when the first client has completed download of the file, using a reliable protocol with a second client device from the multiple client devices packets not received by the second client device.

Marchand disclosed (re. Claim 1) multicasting the plurality of packets to multiple client devices including the first client device (Marchand- Paragraph 50-Paragraph 53, Paragraph 57) and requesting, when the first client has completed download of the file, using a reliable protocol with a second client device from the multiple client devices packets not received by the second client device. (Marchand- Paragraph 50-Paragraph 53, Paragraph 57, Paragraph 64)

Bailey and Marchand are analogous art because they present concepts and practices regarding data transfer using TFTP. At the time of the invention it would have been obvious to combine Marchand into Bailey. The motivation for said combination would have been to enable a connectionless model where, without any preceding protocol exchange, file fragments can be exchanged among cooperating processes. (Marchand-Paragraph 53)

Claim 7 (re. computer readable medium) is rejected on the same basis as Claim

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Claim 13 (re. a system) is rejected on the same basis as Claim 1.

Bailey-Marchand disclosed (re. Claim 2,8,14) wherein the multicasting of the plurality of packets comprises multicasting to the multiple clients using a multicast Trivial File Transfer Protocol (TFTP). (Bailey-Column 3 Lines 25-45, Column 4 Lines 5-15)

Bailey-Marchand disclosed (re. Claim 3,9,15) wherein the reliable protocol comprises a Trivial File Transfer Protocol (TFTP). (Bailey-Column 3 Lines 25-45, Column 4 Lines 5-15)

Bailey-Marchand disclosed (re. Claim 4,10,16) wherein the download of the file occurs during a pre-boot phase of the first client device. (Bailey-Fig. 13a-Fig. 13d, Column 11 Lines 45-55)

Bailey-Marchand disclosed (re. Claim 5,11,17) wherein the file comprises a boot image for the first client device. (Bailey-Fig. 13a-Fig. 13d, Column 11 Lines 45-55)

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6,12, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bailey (US Patent 6185623) further in view of Marchand (US Publication 2008/0168157) further in view of Riedle (US Patent 6983334).

While Bailey-Marchand substantially disclosed the claimed invention Bailey-Marchand did not disclose (re. Claim 6,12,18) wherein the second client device tracks packet gaps within the requested file and the size of the packet gaps during the multicast of the file.

Riedle disclosed (re. Claim 6,12,18) wherein the second client device tracks packet gaps within the requested file and the size of the packet gaps during the multicast of the file. (Riedle-Column 5 Lines 5-15, 'array holes', Column 8 Lines 30-45, Column 9 Lines 50-65)

Bailey, Marchand and Riedle are analogous art because they present concepts and practices regarding data transfer using TFTP. At the time of the invention it would

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have been obvious to combine Riedle into Bailey-Marchand. The motivation for said combination would have been to enable efficiently tracking lost packets of a file being transferred on a multicast network to a receiving client where the tracking system is dynamically scalable to accommodate extremely large files. (Riedle-Column 4 Lines 45-55)

Conclusion

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to the enclosed PTO-892 form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GREG BENGZON whose telephone number is (571)272-3944. The examiner can normally be reached on Mon. thru Fri. 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on (571)272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Greg Bengzon/ Examiner, Art Unit 2444